PROCESSES FOR THE PRODUCTION OF ELECTROPHORETIC DISPLAYS

Abstract of the Disclosure

[0177] A coating of an encapsulated electrophoretic medium is formed on a substrate (106) by dispersing in a fluid (104) a plurality of electrophoretic capsules (102), contacting at least a portion of a substrate (106) with the fluid (104); and applying a potential difference between at least a part of the portion of the substrate (106) contacting the fluid (104) and a counter-electrode (110) in electrical contact with the fluid (104), thereby causing capsules (102) to be deposited upon at least part of the portion of the substrate (106) contacting the fluid (102). Patterned coatings of capsules containing different colors may be deposited in registration with electrodes using multiple capsule deposition steps. Alternatively, a patterned coating may be deposited upon a substrate containing a conductive layer by varying the conductivity of the conductive layer by radiation exposure or by coating portions of the conductive layer with an insulating layer, typically a photoresist.